Reply to Office Action of December 15, 2006

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 7, line 17 as shown below.

At time t2, as shown in Fig. 4C, transfer control signal TX is set to a high state, sufficiently high for voltage V_C of channel region 11 to be greater than Vdd. The voltage of read region 7 increases to reach a voltage V_0 due to the coupling between transistor M_4 and read region 7. This enables increasing the electric field favoring the charge transfer from photodiode D to read node S. The charges stored at the level of photodiode D flow to read region 7 and [[raise]] diminish the voltage of this region to value V₁. In the case where charge Q is relatively low, voltage V₁ may be greater than Vdd and greater than V_C. Hatched region Q' delimited by voltages V_0 and V_1 shows the charges stored at the level of read region 7.

Please replace the paragraph beginning on page 8, line 2 as shown below.

At time t₄, as shown in Fig. 4E, reset control signal RST is set to the low state. The voltage of channel region 12 of transistor M₁ thus increases to enable flowing of charges [[Q"]] Q' stored at the level of read region 7 to supply region 8. The voltages of regions 7, 12, and 8 thus stabilize at the level of supply voltage Vdd.